

IN THE CLAIMS

1. (currently amended) An image processing apparatus, comprising:

an extraction unit operable to extract digital image data of a selected program;

an acquisition unit operable to acquire video encoding parameters associated with the extracted digital image data of the selected program, and to decode the extracted digital image data into decoded image signals including a luminance signal and color difference signals;

a setting unit operable to set at least one image signal processing parameter in accordance with the video encoding parameters; and

a processing unit operable to process the decoded image signals into processed image signals that include RGB signals, the at least one image signal processing parameter being used to control the processing of an the decoded image signals ~~of the selected program to~~ and thereby control image quality of the selected program.

2. (currently amended) The image processing apparatus according to claim 1, wherein:

said the extraction unit extracts the digital image data of the selected program from a transport stream; and

said the acquisition unit acquires the video encoding parameters from service information included in the transport stream.

3. (currently amended) The image processing apparatus according to claim 1, further comprising a storage device operable to store the at least one image signal processing parameter and to supply the setting unit with the at least one image signal processing parameter in accordance with the video encoding parameters ~~to the setting unit.~~

4. (currently amended) The image processing apparatus according to claim 31, further comprising a changing unit operable to change the at least one image signal processing parameter on the basis of an input from a user.

5. (cancelled)

6. (currently amended) The image processing apparatus according to claim 1, further comprising a display operable to display the processed image signals ~~of the selected program after processing.~~

7. (currently amended) The image processing apparatus according to claim 6, wherein the display of the processed image signals ~~is controlled~~ adjusted in accordance with the video encoding parameters.

8. (currently amended) An image processing method, comprising:

extracting digital image data of a selected program;
acquiring video encoding parameters associated with the extracted digital image data of the selected program; ~~and~~
decoding the extracted image data into decoded image signals including a luminance signal and color difference signals;

setting at least one image signal processing parameter in accordance with the video encoding parameters; and

processing the decoded image signals into processed image signals that include RGB signals, the at least one image signal processing parameter being used to control the processing of an the decoded image signals of the selected program to and thereby control image quality of the selected program.

9. (currently amended) The image processing method according to claim 8, wherein:

said the extracting step extracts the digital image data of the selected program from a transport stream; and

said the acquiring step acquires the video encoding parameters from service information included in the transport stream.

10. (currently amended) The image processing method according to claim 8, further comprising storing the at least one image signal processing parameters and supplying the at least one image signal processing parameter in accordance with the video encoding parameters.

11. (currently amended) The image processing method according to claim ~~10~~8, further comprising changing the at least one image signal processing parameter on the basis of an input from a user.

12. (cancelled)

13. (currently amended) The image processing method according to claim ~~12~~8, further comprising displaying the processed image signals ~~of the selected program.~~

14. (currently amended) The image processing method according to claim 13, wherein ~~the~~ said displaying step of displaying includes adjusting the processed image signals of the selected program is controlled in accordance with the video encoding parameters.

15. (currently amended) A recording medium recorded with a computer readable program for carrying out an image processing imagesmethod, the programsaid method comprising:

extracting digital image data of a selected program;

acquiring video encoding parameters associated with the extracted digital image data of the selected program; ~~and~~

decoding the extracted image data into decoded image signals including a luminance signal and color difference signals;

setting at least one image signal processing parameter in accordance with the video encoding parameters; and

processing the decoded image signals into processed image signals that include RGB signals, the at least one image signal processing parameter being used to control the processing of an the decoded image signals of the selected program to and thereby control image quality of the selected program.

16. (previously presented) The image processing apparatus according to claim 1, wherein the video encoding parameters are selected from the group consisting of profile/level designation, number of horizontal pixels, number of vertical lines, aspect ratio, bit rate, frame rate, color initial value, conversion characteristic, matrix coefficient, and repeat first flag.

17. (currently amended) The image processing apparatus according to claim 1, wherein ~~the~~ said setting unit is operable to set the at least one image signal processing parameter to control at least one display setting selected from the group consisting of noise reduction, beam velocity modulation, and gamma correction.

18. (currently amended) The image processing apparatus according to claim 4, wherein ~~the~~ said storage device is operable to store the changed image signal processing parameter.

19. (previously presented) The image processing method according to claim 8, wherein the video encoding parameters are selected from the group consisting of profile/level designation, number of horizontal pixels, number of vertical lines, aspect ratio, bit rate, frame rate, color initial value, conversion characteristic, matrix coefficient, and repeat first flag.

20. (currently amended) The image processing method according to claim 8, wherein ~~the~~ said setting step sets the at least one image signal processing parameter to control at least

one display setting selected from the group consisting of noise reduction, beam velocity modulation, and gamma correction.

21. (previously presented) The image processing method according to claim 11, further comprising storing the changed image signal processing parameter.

22. (previously presented) The recording medium according to claim 15, wherein the video encoding parameters are selected from the group consisting of profile/level designation, number of horizontal pixels, number of vertical lines, aspect ratio, bit rate, frame rate, color initial value, conversion characteristic, matrix coefficient, and repeat first flag.

23. (currently amended) The recording medium according to claim 15, wherein ~~the~~ said setting step sets the at least one image signal processing parameter to control at least one display setting selected from the group consisting of noise reduction, beam velocity modulation, and gamma correction.